

## ABSTRACT OF THE DISCLOSURE

An optical network analyzer for measuring an optical characteristic of an object to be measured, including: a first multiplexer for multiplexing a first optical signal which has transmitted the object to be measured, and a second optical signal having a frequency different from the first optical signal, and for outputting a third optical signal; a first photoelectrical converter for converting the third optical signal into a first electric signal; and a phase measurement block for comparing phases of the first electric signal and a first reference signal.